Serial No. 10/747,657

Docket No. 1315-050

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (Currently amended) A method of producing TiC-transition metal-based complex powder, comprising the steps of:
- (a) preparing a raw material mixture by dissolving or dispersing a [Ti-containing water-soluble salt,] TiO(OH)₂ slurry [or ultrafine titanium oxide powder], and [a transition metal-containing water-soluble metal salt] <u>cobalt nitrate</u> in water, followed by spray-drying to obtain precursor powder;
- (b) calcining the precursor powder to form ultrafine [Ti-transition metal] <u>Ti-Co</u> complex oxide powder;
- (c) mixing the ultra fine [Ti-transition metal] <u>Ti-Co</u> complex oxide powder with nano-sized carbon particles, followed by drying to obtain complex oxide powder; and
- (d) subjecting the dried complex oxide powder to reduction/carburization in a non-oxidizing atmosphere wherein the reduction and carburization is performed by reduction at a temperature between 600°C to 1100°C and then reduction and carburization at a temperature between 1200°C to 1350°C.
 - 2. (Cancelled)
- 3. (Currently amended) The method according to claim 1, wherein the content of the [transition metal] cobalt in the complex powder is in the range of 1 to 30 wt%.
- 4. (*Previously presented*) The method according to claim 1, wherein the calcination is performed at a temperature between 350 to 1000°C.
 - 5. (Cancelled)
 - 6. (Cancelled)
 - 7. (Cancelled).

- 8. (Cancelled)
- 9. (Cancelled).
- 10. (Cancelled).
- 11. (Cancelled).
- 12. (Currently amended) The method according to claim [11] 1, wherein the TiC-Co complex powder has a particle size of from 50 nm to 300 nm.
 - 13. (Cancelled).
 - 14. (Cancelled).
- 15. (Currently amended) The method according to claim [11] 1, wherein said TiC-Co complex powder is TiC-15 wt% Co complex powder.
 - 16. (Cancelled).
 - 17. (Cancelled)
- 18. (*Previously presented*) The TiC-transition metal-based complex powder made by the process of Claim 1.
- 19. (*Previously presented*) The powder of claim 18 wherein the particle size of the powder is in the range of 50 nm to 300 nm.
- 20. (New) A method of producing TiC-transition metal-based complex powder, comprising the steps of:
- (a) preparing a raw material mixture by dissolving or dispersing a nano-sized TiO₂ and cobalt nitrate in water, followed by spray-drying to obtain precursor powder;
 - (b) calcining the precursor powder to form ultrafine Ti-Co complex oxide powder;

- (c) mixing the ultra fine Ti-Co complex oxide powder with nano-sized carbon particles, followed by drying to obtain complex oxide powder; and
- (d) subjecting the dried complex oxide powder to reduction/carburization in a non-oxidizing atmosphere wherein the reduction and carburization is performed by reduction at a temperature between 600°C to 1100°C and then reduction and carburization at a temperature between 1200°C to 1350°C.
- 21. (New) The method according to claim 20, wherein the content of the cobalt in the complex powder is in the range of 1 to 30 wt%.
- 22. (New) The method according to claim 20, wherein the calcination is performed at a temperature between 350 to 1000°C.
- 23. (New) The method according to claim 20, wherein the Ti-Co complex is TiC-15. wt% Co complex powder.